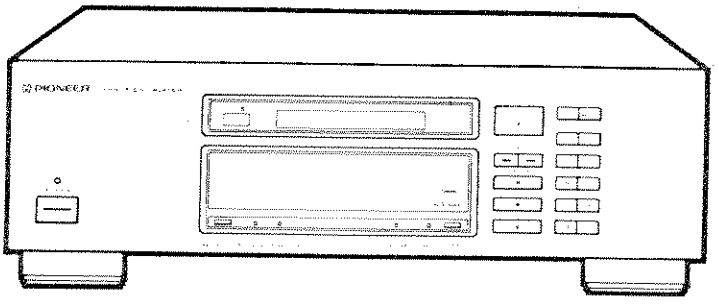
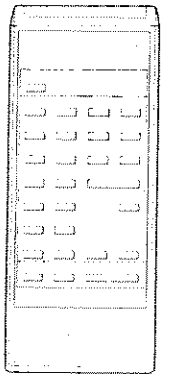
# Operating Instructions

## COMPACT DISC PLAYER

# PD-71
# PD-9300





COMPACT disc DIGITAL AUDIO

Thank you for buying this Pioneer product.
Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.
In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.

**WARNING:** TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

### IMPORTANT NOTICE
### [For U.S. and Canadian models]

The serial number for this equipment is located on the rear panel. Please write this serial number on your enclosed warranty card and keep it in a secure area. This is for your security.

### [For Canadian model]

**CAUTION:** TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

**ATTENTION:** POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

*"This product is manufactured to comply with the radio interference requirements of EEC Directive 76/889/EEC and 82/499/EEC."*

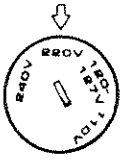
### LINE VOLTAGE SELECTOR SWITCH

**Only multi-voltage models are provided with this switch. U.S., Canadian, European, U.K., and Australian models are not provided with this switch. Mains voltages in Saudi Arabia are 127V and 220V only. Never use this model with 110V setting in Saudi Arabia.**

The line voltage selector switch ist located on the rear panel of this player. Before your player is shipped from the factory, the switch is set to the power requirements of the player's destination. Check that it is set properly before plugging the power cord into the outlet. If the voltage is not properly set or if you move to an area where the voltage requirement differ, adjust the selector switch as follows:

- Use a medium-sized (flatblade) screwdriver. Insert the tip of the screwdriver into the groove of the selector switch and turn it so that the power voltage marking of your area points to the arrow.

VOLTAGE SELECTOR

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The future of sound and vision.

# IMPORTANT 1

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

# IMPORTANT 2

If the apparatus is fitted with AC mains power outlet(s), see REAR PANEL FACILITIES for convenient connection of additional Hi-Fi component(s). Make all connections to the AC outlet(s) and the signal terminals first. Connect the plug to the wall socket last, make sure that the power switch is off.

## FOR USE IN THE UNITED KINGDOM

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured marking identifying the terminals in your plug proceed as follows:
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.
**Equipment sold in the U.K. is not supplied with a power plug.**

# SAFETY INSTRUCTIONS

**READ INSTRUCTIONS** – All the safety and operating instructions should be read before the appliance is operated.

**RETAIN INSTRUCTIONS** – The operating instructions should be retained for future reference.

**HEED WARNING** – All warnings on the appliance and in the operating instructions should be adhered to.

**FOLLOW INSTRUCTIONS** – All operating and use instructions should be followed.

**WATER AND MOISTURE** – The appliance should not be used near water – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

**LOCATION** – The appliance should be installed in a stable location.

**WALL OR CEILING MOUNTING** – The appliance should not be mounted to a wall or ceiling.

**VENTILATION** – The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

**HEAT** – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

**POWER SOURCES** – The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

**POWER CORD PROTECTION** – Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

**POLARIZATION** – If your plug-fused product is provided with a polarized power plug, please read the following instructions. This product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

**CLEANING** – The appliance should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzine, insecticides or other volatile liquids since they may corrode the cabinet.

**POWER LINES** – An outdoor antenna should be located away from power lines.

**NONUSE PERIODS** – The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

**OBJECT AND LIQUID ENTRY** – Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

**DAMAGE REQUIRING SERVICE** – The appliance should be serviced by a Pioneer authorized service center or qualified service personnel when:

- The power supply cord or the plug has been damaged; or
- Objects have fallen, or liquid has been spilled into the appliance; or
- The appliance has been exposed to rain; or
- The appliance does not appear to operate normally or exhibits a marked change in performance; or
- The appliance has been dropped, or the enclosure damaged.

**SERVICING** – The user should not attempt to service the appliance beyond that described in the operating instructions. For all other servicing, contact the nearest Pioneer authorized service center.

**OUTDOOR ANTENNA GROUNDING** – If an outside antenna is connected to the antenna terminal, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges.
In the U.S.A., section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Fig. A.

**CART** – An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

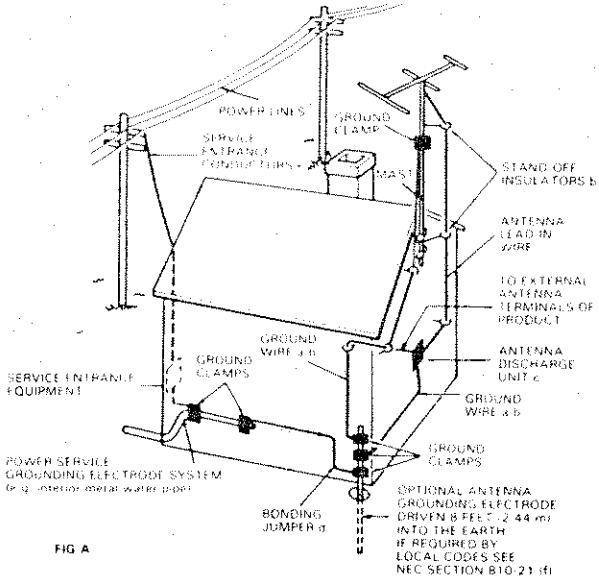
POWER LINES
GROUND CLAMP
SERVICE ENTRANCE CONDUCTORS
MAST
STAND-OFF INSULATORS b
ANTENNA LEAD-IN WIRE
TO EXTERNAL ANTENNA TERMINALS OF PRODUCT
GROUND WIRE a, b
ANTENNA DISCHARGE UNIT c
GROUND CLAMPS
SERVICE ENTRANCE EQUIPMENT
GROUND WIRE a, b
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (e.g. interior metal water pipe)
BONDING JUMPER d
OPTIONAL ANTENNA GROUNDING ELECTRODE DRIVEN 8 FEET (2.44 m) INTO THE EARTH IF REQUIRED BY LOCAL CODES SEE NEC SECTION 810-21 (f)

FIG A

a) Use No.10 AWG (5.3 mm²) copper, No.8 AWG (8.4 mm²) aluminum, No.17 AWG (1.0 mm²) copper clad steel, bronze wire, or larger as ground wire.

b) Secure antenna lead-in and ground wires to house with stand-off insulators spaced from 4 feet (1.22 meters) to 6 feet (1.83 meters) apart.

c) Mount antenna discharge unit as closely as possible to where lead-in enters house.

d) Use jumper wire not smaller than No.6 AWG (13.3 mm²) copper, or the equivalent, when a separate antenna-grounding electrode is used.
See NEC Section 810-21 (j).

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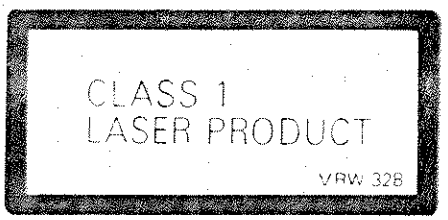
## [FOR EUROPEAN AND U.K. MODELS]

### CAUTION

This product contains a laser diode of higher class than 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product.
Refer all servicing to qualified personnel.

The following caution label appear on your player

Location: rear of the player




## [FOR U.S. MODEL]

### CAUTION

- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- The use of optical instruments with this product will increase eye hazard.

## INFORMATION TO USER [FOR U.S. MODEL]

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- reorient the receiving antenna
- relocate this equipment with respect to the receiver
- move this equipment away from the receiver
- plug this equipment into a different outlet so that equipment and receiver are on different branch circuits

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems"

This booklet is available from the US Government Printing Office, Washington, D.C. 20402, Stock No. 004-000-00345-4

*The above instructions apply only to units which will be operated in the United States.*

## [For Canadian model]

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

## [Pour le modèle Canadien]

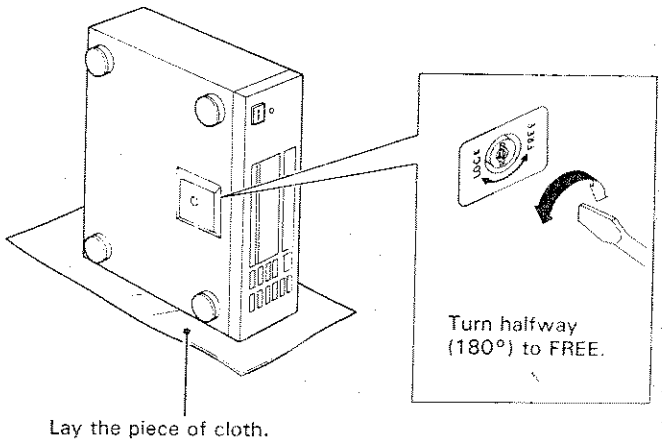
L'interférence, radioélectrique générée par cet appareil numérique de type B ne dépasse pas les limites énoncées dans le Règlement sur les perturbations radioélectriques, section appareil numérique, du Ministère des Communications.

# TRANSPORTATION SCREW

The unit has a transportation screw to secure and protect the inner mechanism from vibration during transport. Before using the unit, be sure to disengage this screw.

1. As shown on the figure on the right, lay the player on its side.
   Use a flatblade screwdriver to turn the screw on the bottom of the unit counterclockwise 180° to FREE. The screw is now disengaged.
2. Set the player on its bottom.

• When transporting the unit, set the screw back to its original position (to LOCK).




## Removal of the transportation spacer attached to the tray.

Remove the transportation spacer before the first playback operation. For opening procedure of the disc tray refer to section "OPERATION PROCEDURES BEFORE PLAYBACK" (page 15).

Keep the removed spacer and use it again during later transports of the unit.

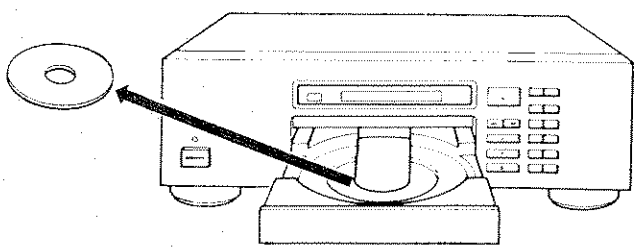


Illustration not applicable to U.K. model.

# FEATURES

**CD player with 8fs digital filter linear envelope real 18bit twin D/A converter system, and acufocus system for quality sound and functionality.**

- The sampling frequency during D/A conversion can be increased 8 times from 44.1 kHz up to 352.8 kHz thus allowing for the audio characteristics to feature low phase distortion.
- Independent real 8times 18bit D/A converter on each channel for reduction of D/A conversion glitch (noise). This results in a superior separation of left and right channel featuring no phase difference.
- Linear envelope D/A converter for suppressing the noise produced during D/A conversion to a minimum value.

### High sound quality due to non-resonance and non-vibration devices

- Multi-resonance Absorber System
  The multi-resonance absorber system floating on a cage assembly and supporting the optical mechanism and the circuit boards in the heart of the CD player ensures a superior resistance against externally induced shocks.
- Acoustic Shield
  An acoustic shield both for mechanically separating loading assembly and tray assembly and acoustically screening the tray assembly. Thus the interior of the cage assembly is protected against sound waves from the exterior.
- Floating Mechanism with low Center of Gravity thanks to the combination of a floating mechanism preventing the optical system from unwanted rolling and a FRP mechanism featuring high rigidity and high internal losses a stable signal reading is ensured.
- Disc stabilizer for suppression of unwanted disc vibrations and precise reading of the signals.
- High-rigidity Honeycomb Insulator

### Noise-free Operation

Clean Microprocessor

- The scanning noise produced by the built-in microprocessor during pressing any of the operation keys is suppressed.
- Selector for Digital/Analog Output
  By preventing unused circuits from being activated additional noise sources are suppressed.
- Turn off Switch for FL Display
  Suppression of the scanning noise that is produced when the FL display is on.

### Acufocus System

Reading errors of signals on the disc are greatly reduced and sound clarity is improved.

### Linear Servo Mechanism

Allows for a pleasant operating feeling and a quick access.

### Direct Track Selection

Just by pressing one TRACK NUMBER key it is possible to select the desired track and start playback.

### Digital Output Terminals

The unit is equipped with coaxial digital output and optical digital output terminals allowing for the connection of amplifiers with digital input terminals and separate D/A converters.

### 4 Independent Power Supplies

All of the sections are provided with independent power supplies thus limiting mutual interferences to a minimum.

### Additional Functions

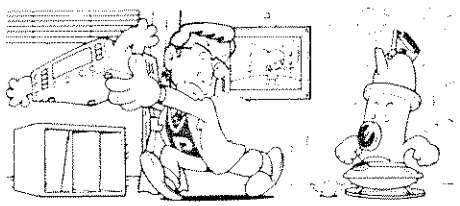
- **24step Programming (Preset Program)**
  This function allows the playback of desired tracks or favourite programs. Moreover, it is also possible to insert programs during normal playback (preset program).
- **Program Pause**
  This function is very convenient for "Karaoke" or tape editing because of the pauses that can be programmed.
- **Random Play/Programmed Random Play**
  Tracks from the inserted disc are played at random. This function is very helpful for background music when used together with the repeat function.
- **Compatible with 8 cm CD Disc**
  Apart from normal CDs (12 cm), 8 cm CDs can also be played.
- **Repeat Playback with one Track, all Tracks or Programs**
- **The large fluorescent display can show the elapsed time, total Time, track remain time, and total remain time.**
- **Timer Start**

# CAUTIONS REGARDING HANDLING

## LOCATION

**Install the player in a well ventilated location where it will not be exposed to high temperature or humidity.**

Do not install the player in a location which is exposed to direct sunlight, or near to hot appliances or radiators. Excessive heat can adversely affect the cabinet and internal components. Installation of the player in a damp or dusty environment may result in malfunction or accident. (Also avoid installation near cookers etc., where the player may be exposed to smoke from oil, steam or heat.)

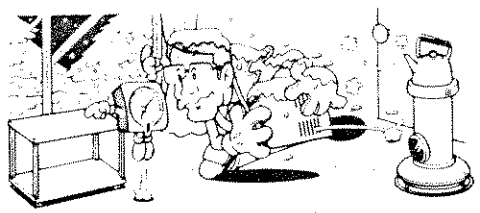


## PRECAUTIONS REGARDING INSTALLATION

- Placing and using the compact disc player for long periods on heat-generating sources such as amplifiers will affect performance. Avoid placing the player on the heat-generating sources.
- Install this compact disc player as far as possible from tuners and TV sets. A compact disc player installed in close proximity to such equipment may cause noise or degradation of the picture. Such noise may be particularly noticeable when an indoor antenna is used. In such a case, make use of an outdoor antenna, or turn off power to the compact disc player.

## CONDENSATION

- When the player is brought into a warm room from previously cold conditions or when the room temperature is suddenly increased, condensation may form inside and the player may not be able to attain its full performance. In cases like this, allow the unit to stand for about an hour or raise the room temperature gradually.

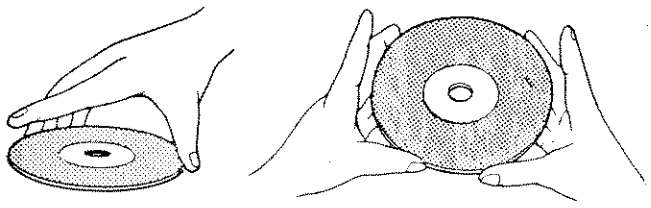


## CARE OF DISCS

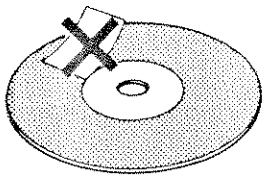
- With this player, use discs which display the mark shown below. (Optical audio digital discs.)

COMPACT disc DIGITAL AUDIO

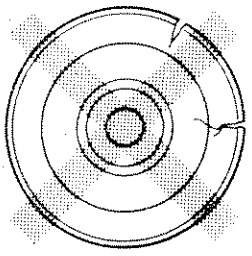
- When holding discs, do not touch their signal surfaces. Hold the edges, or one edge and the center hole.



- Do not affix labels or adhesive tape to the label surfaces. Also, do not scratch or damage the label.

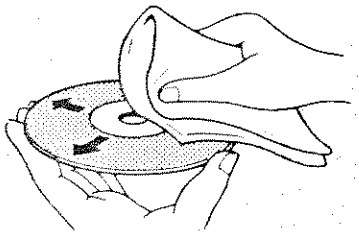


- Discs rotate at high speed inside the player. Do not use damaged (cracked or warped) discs.

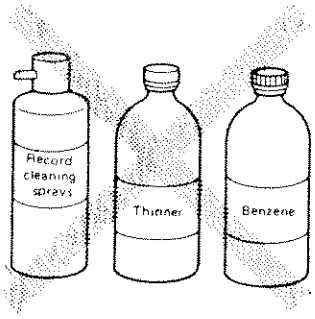


## CLEANING DISCS

- The presence of fingerprints or smudges on the surface of the disc will not directly affect the recorded signals; but depending on the degree of contamination, the brightness of the light reflected from the signal surfaces may be reduced, causing degradation of sound quality. Always keep your discs clean by wiping them gently with a soft cloth from the inner edge toward the outer perimeter.



- If a disc becomes very dirty, wet a soft cloth in water. After wringing it out well, wipe the dirt away gently, and then remove any water drops with another soft dry cloth.
- Do not use record cleaning sprays of anti-static agents on discs. Also, never clean discs with benzene, thinner or other volatile solvents which may cause damage to the disc surface.

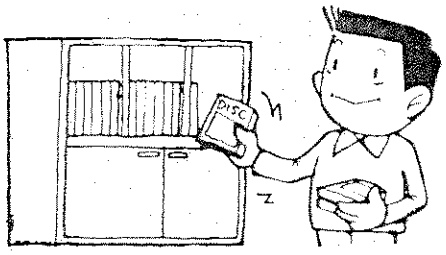



## CLEANING THE PLAYER

To clean the front panel and unit housing, wipe with a soft, dry cloth. For stubborn dirt, wet a soft cloth with a mild detergent solution, wring well, then wipe off the dirt. Also use a dry cloth to wipe the surface dry. Do not use volatile liquids such as benzene and thinner which are harmful to the unit.

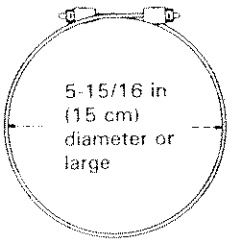
## STORING DISCS

- Discs are made of the same kinds of plastic used for conventional analog audio records. Be careful not to allow discs to warp; always store discs in their cases vertically, avoiding locations with high heat or humidity, or extremely low temperatures. Avoid leaving discs in cars and on the seats being exposed to direct sunlight can be harmful.
- Always read and abide by the precautionary notes listed on the disc labels.




### Handling precautions for the optical fiber cable (sold separately)

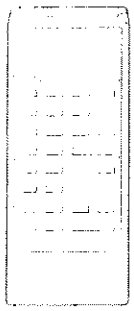
- Do not bend the cable at sharp angles. Doing so may damage the cable. When installing in a rack, take special care. When storing the cable for storage, coil with 5-15/16 in (15 cm) diameter or larger.



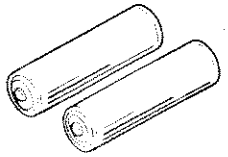

- When connecting, insert the plug fully. Avoid an incomplete connection.
- Use an optical fiber cable 10 feet (3 m) or less.
- Avoid the optical fiber cable plug being scratched or exposed to dust. If there is dust, wipe off with a soft cloth.
- When an optical fiber cable is not connected, place the dust cap on the optical terminal (OPTICAL).

# BEFORE OPERATING PLAYER

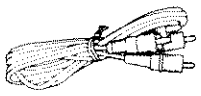
## 1. CONFIRM SUPPLIED ACCESSORIES



① Remote control unit



② Size AAA/R03 dry cell batteries × 2

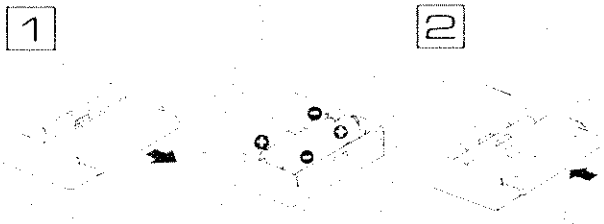


③ Output cable

- The remote control unit and batteries are located in the rear of the packing material.

## 2. PUT BATTERIES INTO REMOTE CONTROL UNIT

**1. Open the rear cover and install batteries making sure that the ⊕ ⊖ polarity is correct.**




**2. Close the cover.**

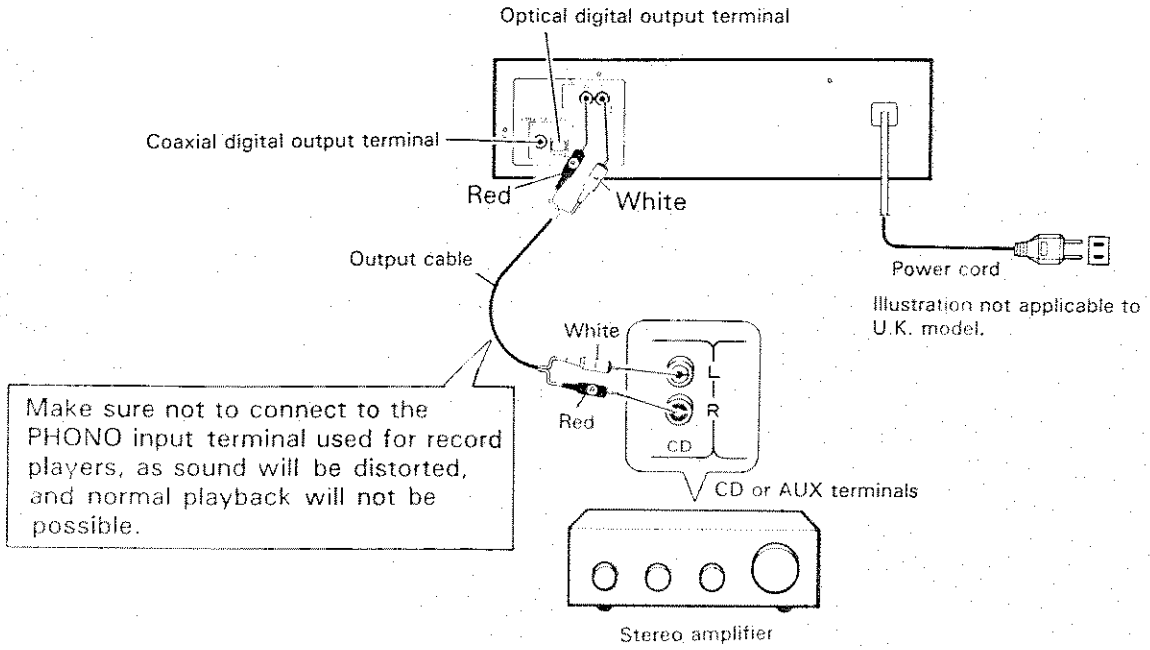
*NOTE:*

- *If the remote control unit will not be used for a long time (1 month or more), remove the batteries to avoid battery leakage. If fluid should ever leak from batteries, wipe away the fluid and then install new batteries.*
- *Do not put books etc. on top of the remote control unit. If keys are continuously depressed, the batteries will run down.*
- *If the operating range decreases, the batteries have probably run out. Please replace with new batteries.*

Incorrect use of batteries may result in leakage of fluid, explosion of batteries and other dangers. Please pay particular attention to the following points.

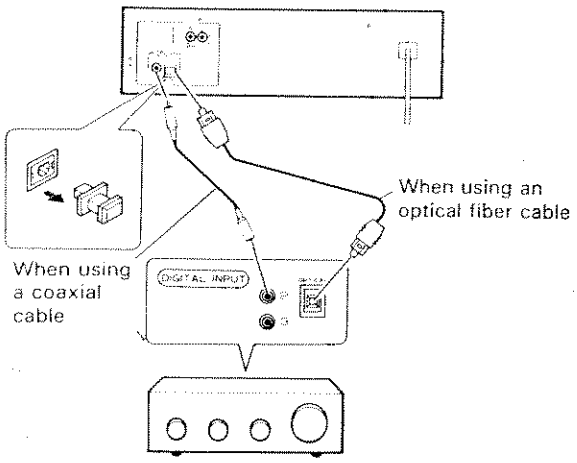
- Please correctly install batteries so that the (+) and (−) battery polarity matches with the (+) and (−) markings inside the battery case.
- Do not use new batteries together with batteries which have already been used.
- The voltages of dry batteries may differ even though they are of the same size and shape. Please do not use different types of dry batteries together.
- Batteries may be either rechargeable or non rechargeable. Before using batteries please read cautions and notes printed on them.

# CONNECTIONS




## Digital output connection

- The coaxial cable and optical fiver cable are sold separately.



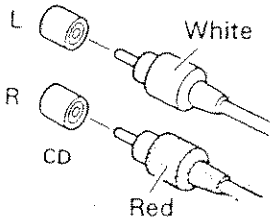

*NOTE:*

- *Connect the digital output terminal to a stereo amplifier provide with a digital input terminal corresponding with the respective format.*
  *Make sure not to connect it to an audio terminal such as a CD input.*
  *Moreover, if there is no digital connection don't connect the plug.*
- *When an optical connection is established with an amplifier not complying to the optical signal standard, sound reproduction may be impossible.*

## Connecting the output cable

Connect the plugs of the cable to the input terminals of the amplifier (terminals marked CD or AUX), and to the output terminals of the compact disc player.

- Connect the white plugs to the left (L) terminals and the red plugs to the right (R) terminals.
- Make sure plugs are pushed fully into the terminals.




## Connect the power cord

Insert the power cord plug into the auxiliary AC outlet of your amplifier unit, or into a household wall outlet.

# NAMES AND USES OF PARTS

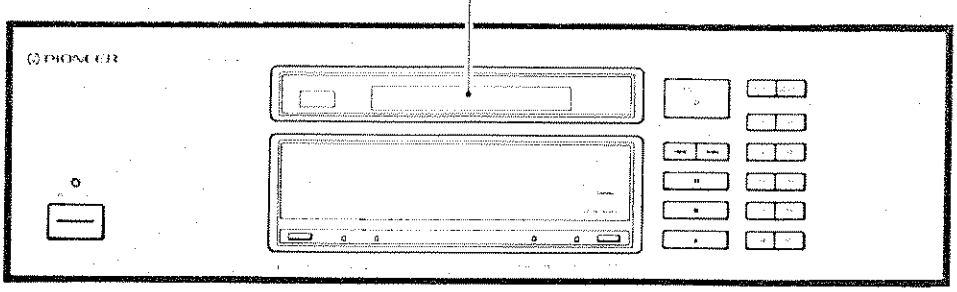
## FRONT PANEL

### INDICATORS

PROGRAM : Lights during the program mode.
RANDOM : Lights during random playback.
AUTO SPACE : Lights during auto space playback.
1 ▸ REPEAT : Lights during repeat playback of one track.
REPEAT : Lights during repeat playback of all tracks (or programs).
TRACK : Displays the current track number (during normal playback and programmed playback) or the track being programmed during programming operation.
INDEX : Displays the index* number of the music section of a track or the track division.
STEP : Displays the program steps.
TIME/REMAIN/TOTAL : Changes each time the TIME key is pressed.
• TIME : Displays the track number of the track being displayed (TRACK) and the elapsed time (minutes and seconds).
• REMAIN : Displays the remaining time on the track being displayed.
When the TIME key is pressed again, the remaining time on the disc will be displayed.
• TOTAL : Displays the total number of tracks on the disc (TRACK) and the overall playback time (minutes and seconds).
During playback, the display goes on for about 5 seconds before changing to the TIME display.

During programmed playback operation, displays the playing time, the remaining time of the track being played and the total program steps (TOTAL).
MIN (minute) : Displays the minutes of the elapsed time, total playback time, and remaining time.
SEC (second) : Displays the seconds of the elapsed time, total playback time, and remaining time.

* The INDEX is a signal which is recorded within a track to indicate division of the track into separate tunes and items of music.



### PLAY key/indicator (▷)

Press to begin playback, and to cancel the pause mode.

### POWER switch / indicator

Press to turn power ON and OFF to the unit.
If there is a disc in the unit when power is turned ON, playback will begin automatically. (Timer start function)

### Disc Tray

This is where the disc is set. When power is switched ON and the OPEN/CLOSE key is pressed, the tray is ejected forward. To insert the tray, press the OPEN/CLOSE key, or lightly push the tray in with your finger. With the disc tray open, pressing the PLAY key or TRACK NUMBER key will close the disc tray and start playback.

### PAUSE key (❚❚)

Press to temporarily interrupt playback. When pressed again, the pause mode is cancelled and playback resumes.
When pressed during program mode, a pause is inserted into the program.

### TRACK SEARCH keys

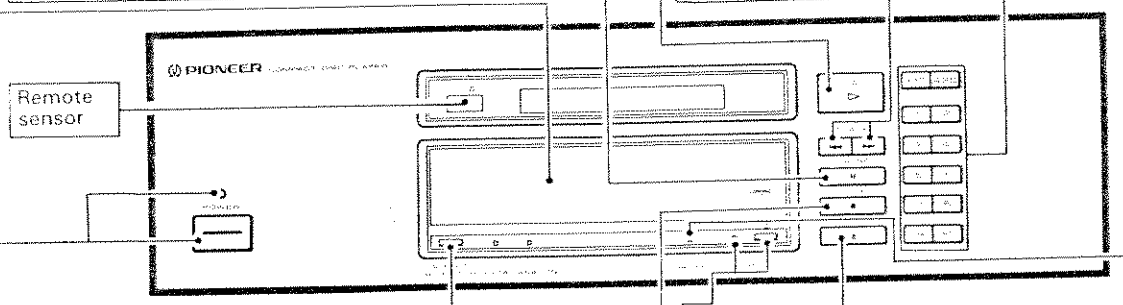
During playback (or programmed play) or pause, these keys are used to search for the desired track. The search keys are pressed to advance or reverse the player to the next or previous track respectively.

[▶▶|] : Pressing this key once will advance the player to the beginning of the next track. Holding down the key will advance the player to the beginning of the following tracks. (During programmed playback, the player will advance to the beginning of the following programmed track(s).)

[|◀◀] : Pressing this key once will reverse the player to the beginning of the currently-playing track. Holding down the key will reverse the player to the beginning of the previous track (s). [During programmed playback, the player will reverse to the beginning of the previous programmed track (s)].

### TRACK NUMBER keys (1 to 10, +10 and ≧ 20)

These keys are used to specify the track numbers (tracks 1 to 99) for direct track selection or program entry.




**PAUSE indicator**

### OUTPUT SELECTOR key/indicator

Use this key to select the desired output terminals. The default setting for both outputs is ON and with subsequent pressing of the key the terminal assignment will change as follows.

| | Digital Output | Analog Output |
|---|---|---|
| Power is applied | ON | ON |
| Key stroke 1 | OFF | ON |
| Key stroke 2 | ON | OFF |
| Key stroke 3 | ON | ON |

- The indicator lits.
- Unused circuits are not activated, thus eliminating any adverse effect on the sound quality.

### OPEN/CLOSE key (▲)

Press when you wish to eject or load a disc. Each time the key is pressed, the tray is alternately pushed out or pulled in.

### DISPLAY OFF key / indicator

Press this key to turn off the indicator display. The unused circuits are turned off to prevent any detrimental effect on sound quality.

- When an operation key is pressed, the display will go on for a few seconds.
- When not in playback mode (STOP, PAUSE, etc.), the display will be on.

### STOP key (■)

Press to stop playback. When pressed, the player goes into stop mode and all operations stop.
Press to clear a program. When pressed during stop mode, the program stored in memory is cleared.

## REMOTE CONTROL UNIT

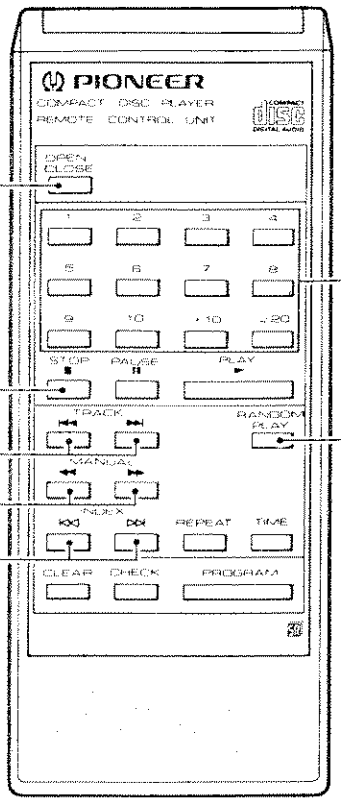
Refer to player front panel section regarding other key functions not specified here.

**OPEN/CLOSE key**

**STOP key ( ■ )**

**TRACK search keys ( |◄◄, ►►| )**

**TRACK NUMBER keys**




### MANUAL SEARCH keys

When the player is in play or pause modes, these keys are pressed to perform fast forward or fast reverse operations, to allow manual searching. These operations are only carried out during the time either key is pressed.
When pressed during a pause, the playback time of the track, the number of which is shown, will be displayed.

[►►] : Fast forward operation (If fast forward operation is performed to the end of the disc, "End" will be displayed and the player will enter pause mode.)

[◄◄] : Fast reverse operation (If fast reverse operation is performed to the beginning of the disc, the player will enter play mode.)

- For programmed playback, when the forward search reaches the next track, it will enter the pause mode. When it reaches the beginning of the track in reverse search, the player will enter the playback mode.

### INDEX SEARCH keys

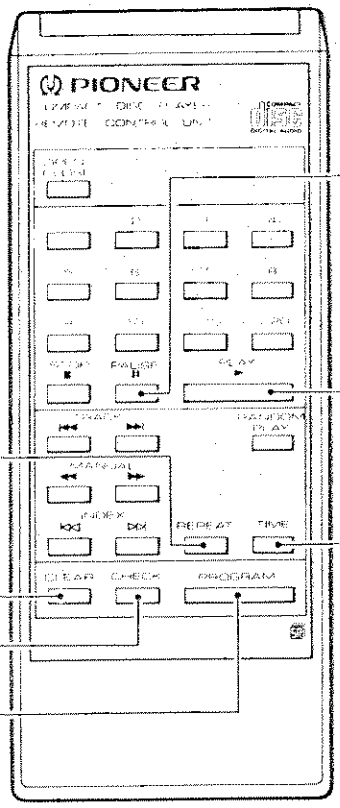
Searches during playback or pause, for the music section of a track or the track index. When pressed, the unit will return to the previous index or advance to the next index.

[▷▷|] : Advance to the next index number.

[|◁◁] : Returns to the index number of the currently-playing music section or track.

### RANDOM PLAY key

Press to begin random playback.




### REPEAT key

Press this key for repeat playback. Pressing the key once, twice, or three times will change the repeat mode from single track repeat, all tracks repeat, and repeat playback cancellation.

**Single track repeat:**

The currently-playing track will repeat. The key can be used during normal playback, program playback, random playback.

**All tracks repeat:**

All tracks on the disc will be repeated.

- If pressed during normal playback mode, all tracks on the disc will be repeatedly played back.
- If pressed during programmed playback, the programmed tracks will be repeatedly played back in the programmed order.
- In the case of random play mode, after all the tracks have been played, random play will start again.
- During programmed random playback, after the programmed tracks are played at random, programmed random playback will be repeated.

### CLEAR key

Press this key during program entry or playback to clear the last program step.

### TIME key

This switches the indicator display mode. Each time the key is pressed, the display will show TIME, REMAIN, and TOTAL respectively. (For a description of each display mode, refer to the item concerning the indicator.)

### CHECK key

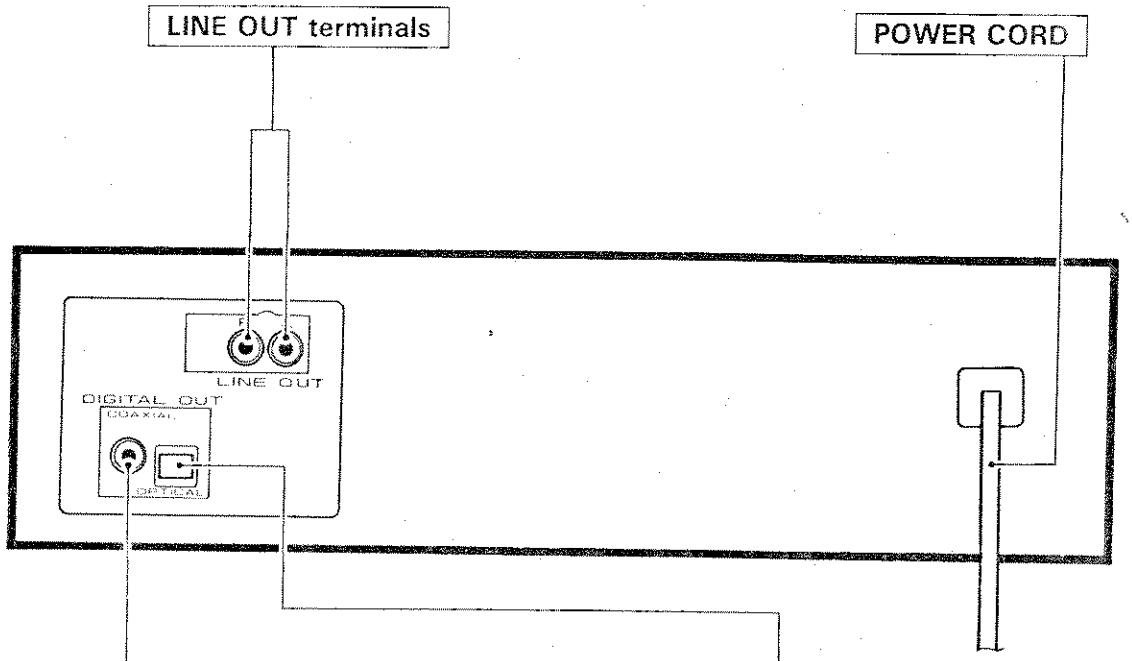
Press this key to check the contents of a program that has been entered. Starting with step 1 of the program, the next program step will be shown each time the key is pressed.

### PROGRAM key

This is used to program tracks to play in a desired sequence.

Press this key to set the unit to program mode. then specify the desired tracks with the TRACK NUMBER keys. The tracks will be programmed as they are entered in this way.

## REAR PANEL



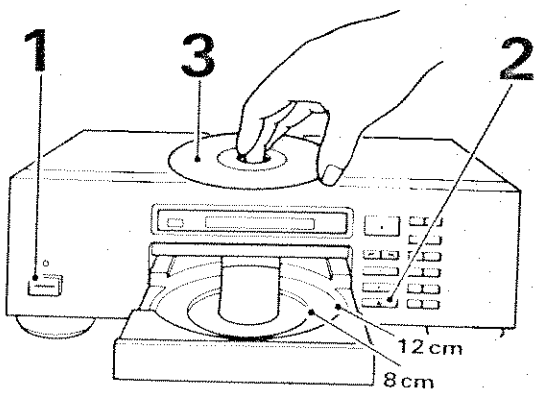

**COAXIAL DIGITAL OUTPUT terminal**
This terminal allows output of disc audio data and subcode (signals which can be recorded together with the audio signal) as digital signals.

**OPTICAL DIGITAL OUTPUT terminal**
This terminal allows output of disc audio data and subcode (signals which can be recorded with the audio signal) as digital signals.

# OPERATION

- All figures following the name of each key correspond to the description of the controls on the front panel and the remote control.

## OPERATION PROCEDURES BEFORE PLAYBACK (Inserting a disc)

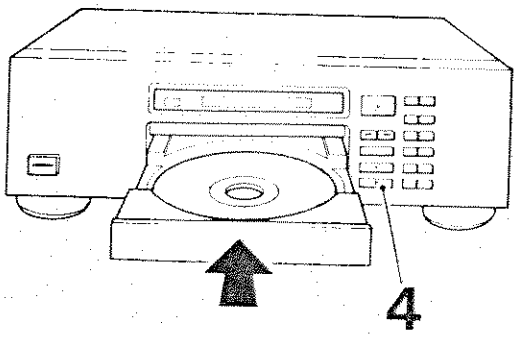



1. Press in the POWER switch to turn the unit ON.

2. Press the OPEN/CLOSE key.
   The disc tray will be ejected forward.
   When using the player for the first time, remove the spacer inserted in the disc tray.

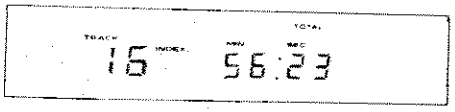
3. Place a disc on the disc tray.
   Insert the disc on the tray while following the respective disc guide (8 cm or 12 cm disc guide), as shown in the figure.

*NOTE:*
- *When setting an 8 cm CD, do not use the 8 cm CD adapter.*
- *Make sure to place the disc on the tray with the label side up.*
- *Hold the disc so that you do not touch the playing side (the iridescent side) with your hands or fingers.*
- *If both 8 cm and 12 cm Discs are inserted and played simultaneously, the disc may be scratched or malfunction may result. Insert only one disc at a time.*




4. Push the disc tray into the player.
   Press the OPEN/CLOSE key, or gently push the disc tray with your fingers.
   After insertion of the disc tray, the total number of tracks on the disc and the total playing time will be displayed for 5 seconds.

Disc Setting

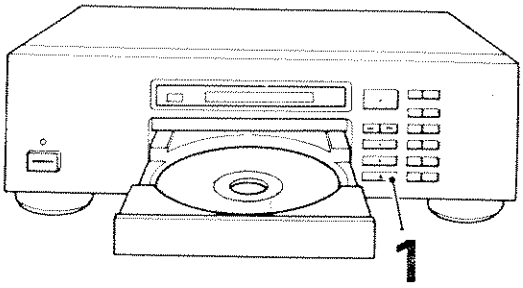



(Output selection)

5. Press the OUTPUT SELECTOR key according to the desired output terminal assignment.

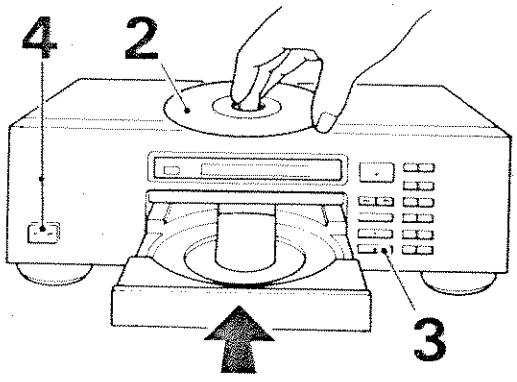
6. Set your stereo amplifier controls for compact disc playback.
   (For details refer to the operating instructions of your stereo amplifier.)

## PROCEDURES AFTER PLAYBACK (Removal of disc)




1. Press the OPEN/CLOSE key and eject the disc tray.

2. Remove the disc and put it into its case.
   Be careful not to touch the playing side.



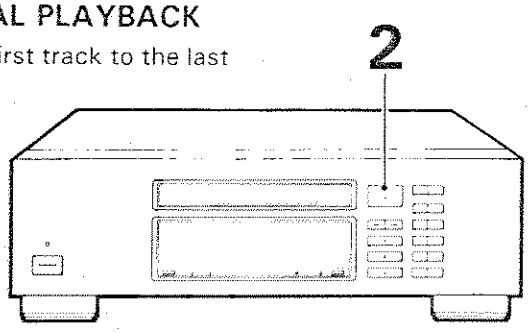

3. Press the OPEN/CLOSE key, or gently push the disc tray in with your fingers.

4. Press the POWER switch so as to turn OFF power.

- The indicators are shown for a case in which the TIME setting is used.

## OPERATIONS FOR NORMAL PLAYBACK

Playback of all tracks, from the first track to the last track.




**1. Carry out "OPERATION PROCEDURES BEFORE PLAYBACK", and set a disc.**

**2. Press the PLAY key.**

The TRACK NUMBER key "1" can also be used.
The PLAY indicator will light, and playback will begin.
Shows the elapse time of current playback, and the track number.

**Normal Playback**

**3. Adjust sound volume and tone with the stereo amplifier controls.**

When the last track finishes playing, the player enters stop mode. All operations stop and the player stops at the position of the disc's starting track number.

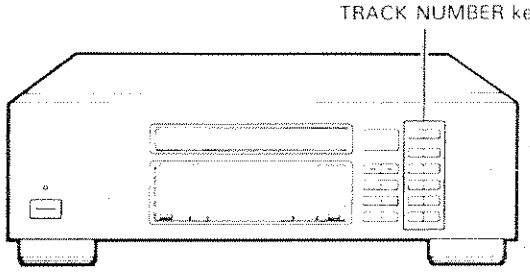
**4. After finishing playback, carry out the "PROCEDURES AFTER PLAYBACK".**

**Operation example**

- To start playback
  POWER → OPEN/CLOSE → Set disc → PLAY
- To stop playback
  OPEN/CLOSE → Remove disc → OPEN/CLOSE → POWER

## PLAYBACK FROM THE DESIRED TRACK (DIRECT SELECTION)

Playback starts from the selected track and continues to the last track.




**During stop mode or normal playback, select the track with the TRACK NUMBER keys.**

- Tracks 1 to 10 can be specified directly with the 1 to 10 number keys.
- When specifying track 11 and beyond press the +10 key, and then press one of the 1 to 10 keys to specify the second digit. Each time the +10 key is pressed, the number will increase by a factor of 10. (For 0, use the 10 key.)
- To specify track 20 and beyond, press the ≧ 20 key and one of the 1 to 10 keys for the first digit (for 10, 20, 30, etc.) and for the second digit. (For 0, use the 10 key.)

When specifying a track with the 1 to 10 keys during playback, the selected track will be searched for immediately. However, the track number must be selected within 4 seconds after the +10 key and ≧20 key is pressed. Otherwise, it will be cancelled.

*NOTE:*

- *Track numbers not on the disc cannot be specified.*
- *When the disc tray is open, etc., and if a track number not contained in the disc is specified, playback will start from track 1.*
- *Direct selection cannot be done during program mode.*

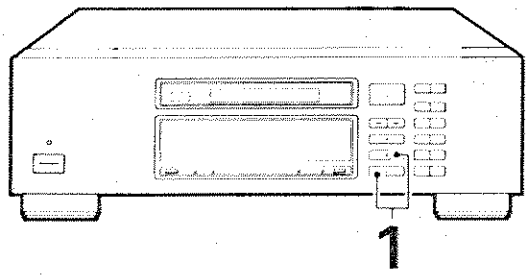
**Operation example**

- To play track 3.
  3
- To play track 20.
  +10 +10 10 or ≧20 2 10
- To play track 36.
  ≧20 3 6 or +10 +10 +10 6

*NOTE:*

*Direct selection cannot be done during programmed playback.*

## TO STOP PLAYBACK

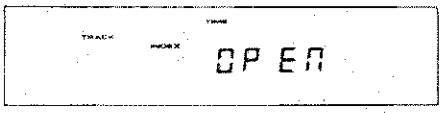



1. **Press the STOP key or the OPEN/CLOSE key.**
   - When the STOP key is pressed, the player enters the stop mode and all operations stop.
   - When stopped in the normal playback mode, the first track number is displayed on the indicator; when stopped during programmed playback, the first track number of the program will be displayed.

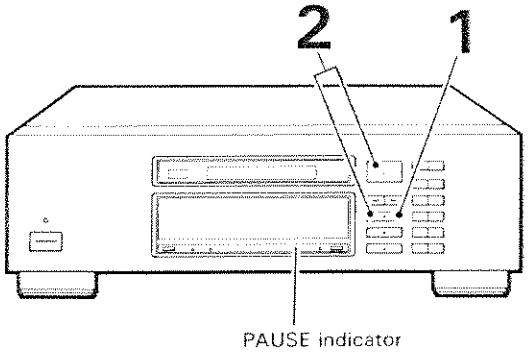
Playback Stop

STOP or OPEN/CLOSE

- When the OPEN/CLOSE key is pressed, the disc tray is ejected.




## PAUSE OPERATION

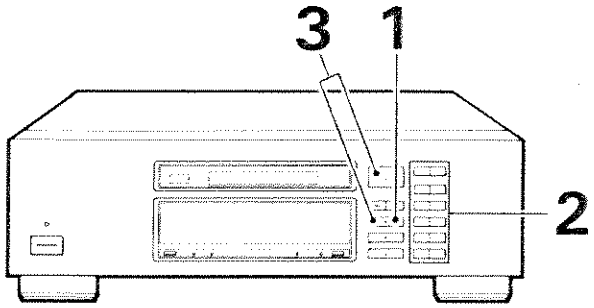



1. **Press the PAUSE key.**
   The PAUSE indicator will light up, and the player will pause where it was playing.

2. **To resume playback, press the PAUSE key again, or the PLAY key.**

Operation example
- To temporarily stop playback
  PAUSE
- To resume playback
  PAUSE or PLAY

## TO PAUSE AT THE START OF A TRACK



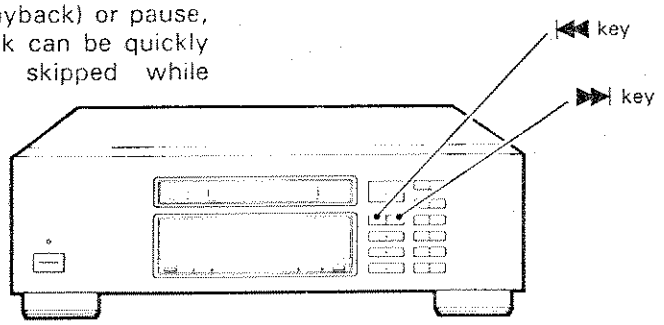

1. **Press the PAUSE key.**
2. **Select a track with the TRACK NUMBER keys.**
3. **To start playback press the PAUSE key or the PLAY key.**

*NOTE:*
*During the program entry (see page 21), pressing the PAUSE key while in stop mode will enter a pause into the program. A pause will not be executed. To execute a pause, cancel the program mode first by pressing the PROGRAM key again.*

Operation example
- To pause at the start of the 3rd track:
  PAUSE → 3
- To start playback:
  PAUSE or PLAY

## TO LOOK FOR A DESIRED TRACK (TRACK SEARCH OPERATIONS)

During playback (programmed playback) or pause, the beginning of the desired track can be quickly searched for. Tracks can be skipped while searching.




- [▶▶|] Each time this key is pressed, it will advance to the next track. Holding it down will advance it to the following tracks continuously. (For a program it will advance to the next programmed track.)
- [|◀◀] When this key is pressed once, it will reverse to the beginning of the currently-playing track. Holding it down will reverse the player to previous tracks. (For a program, it will reverse to the previous programmed track.)

During search operation, the number of the track being searched for will be displayed on the indicator. This allows you to monitor the progress of the search operation.

**Search for the Desired Track**

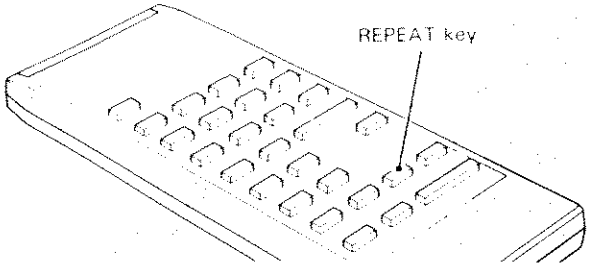
## OPERATIONS FOR REPEAT PLAYBACK

**Single track repeat mode:**

- The currently-playing track will repeat. (Single track repeat)

**All tracks repeat mode:**

- During normal playback, all tracks on the disc will be played back repeatedly (all tracks repeat).
- During programmed playback, the tracks programmed will be played back repeatedly in the order programmed (programmed repeat).
- In the case of random play mode, after all the tracks have been played, random play will start again (random repeat).
- During programmed random playback, after the programmed tracks are played at random, programmed random playback will repeat (program random playback).




**1. With the player in the playback or stop mode, press the REPEAT key.**

When pressed once, it will enter the single track repeat mode. The (1-REPEAT) indicator will light. If the key is pressed again, all the tracks on the disc will be repeated. The (REPEAT) indicator will light.

**2. After the single track or all the tracks are played, repeat playback will begin.**

Playback will be repeated until repeat playback is cancelled.

Single track repeat : [REPEAT] → [PLAY] or [PLAY] → [REPEAT]
All tracks repeat : [REPEAT] → [REPEAT] → [PLAY] or [PLAY] → [REPEAT] → [REPEAT]

### ■ TO CANCEL THE REPEAT MODE

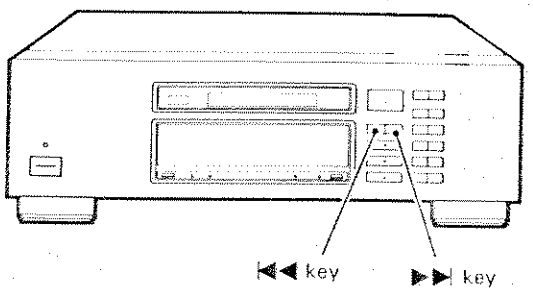
- Press the REPEAT key until the REPEAT indicator goes off. The player will revert to the normal (or programmed) playback mode.
- Press the STOP key or OPEN/CLOSE key. Playback will stop and the repeat mode will be cancelled simultaneously.

[REPEAT] or [STOP] or [OPEN/CLOSE]

## NUMBER OPERATION

### Displaying the playing time of a track (Single-track time display)

During the stop mode, press the [▶▶|] key to display the playing time of each track, starting with track 1. The [|◀◀] key will show the track playing time in reverse order.

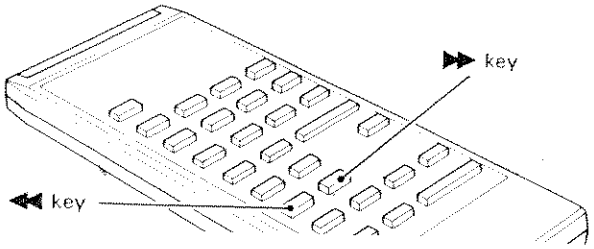



*NOTE:*
*There will be no display after track 30.*

Displaying the playing time of track 4 (Press the [▶▶|] key 4 times.)

## FAST FORWARD AND REVERSE (MANUAL SEARCH OPERATIONS)

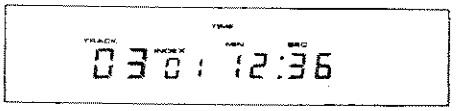
During playback or pause modes, this function allows you to quickly advance or reverse through the disc to find a desired part. Listen to the sound from your speakers or headphones connected to your amplifier while performing the search (during playback mode only). When the key is released the player returns to its original mode (playback or pause). During pause, faster search can be performed. However, no sound will be output.




- When the [▶▶] key is pressed, the player will advance quickly through the disc. If the end of the disc is reached, the player will enter the pause mode. (The indicator will display "End".) Pressing the [◀◀] key will cancel the pause mode.
- When the [◀◀] key is pressed, the player will reverse quickly through the disc. If the beginning of the disc is reached, the player will enter the play mode.

During search operation the elapsed time will be displayed. Watch this display during search operation.

### Manual Search

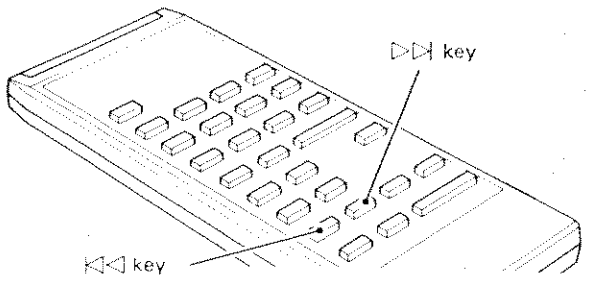



*NOTE:*

- *During programmed playback, fast forward and reverse can be done only for the currently-playing track.*
  *Therefore, if the[ ▶▶ ]key is pressed and held down until the end of the currently-playing track is reached, the player will enter pause mode. To continue playback, press the PLAY key, PAUSE key, or the[ ◀◀ ]key.*
  *Also, if the[ ◀◀ ]key is pressed and held down until the start of the currently-playing track is reached, the player will enter the play mode.*

## HOW TO FIND TRACK INDEXES (INDEX SEARCH OPERATION)

During playback mode or pause mode, these operations allow divisions between items of music and tunes in a track (indexes) to be searched for.




- When the [▷▷|] key is pressed once, the player will advance to the next index number. When held depressed, the player will advance to following index numbers.
- When the [|◁◁] key is pressed, the player will return to the start of the currently-playing index. When held depressed, the player will return to preceding index numbers.

During index search operation, the number of index being searched for will be displayed on the indicator. This allows you to monitor the progress of the search operation.

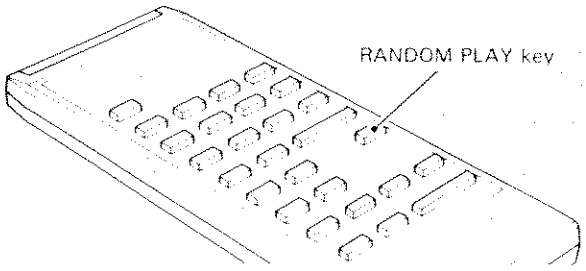
**Index Search**

*NOTE:*

- *If the specified index number does not exist, the player will search for index 1.*

## RANDOM PLAYBACK

- The player will select tracks at random from the disc set in the disc tray for playback and play each track once (Random play). Playback stops when all tracks are played.
- When tracks are programmed, they are played only once in random order. Stops playing after all tracks are played. (Program random play)




1. **Press the RANDOM PLAY key.**
   Random playback will begin. (The RANDOM indicator will light.)

2. **Pressing the RANDOM PLAY key once more will have the player select track at random for playback.**

### When the ALL TRACK REPEAT mode is ON

Random play and programmed random play continues until the REPEAT mode is cancelled.

### To cancel random play operation

STOP or OPEN/CLOSE

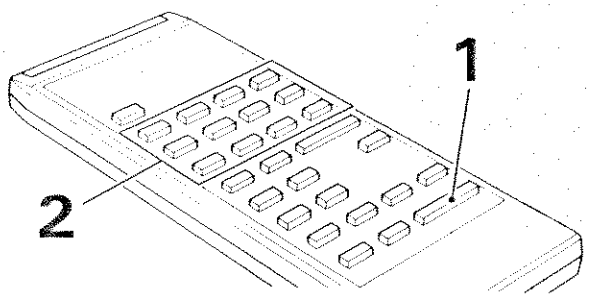
- Press the STOP key or the OPEN/CLOSE key. Playback will stop and random play operation will be cancelled simultaneously.
- Direct selection will also cancel random playback.
- The CLEAR key will not function for programmed random play.
- If the track number is specified during programmed random playback, the specified track number will be added to the program while random playback continues.

## TO PLAYBACK TRACKS IN A DESIRED ORDER (PROGRAMMED PLAYBACK)

- Tracks on a disc can be programmed to play in the desired sequence.
- Tracks 1 to 99 can be selected and up to 24 program steps can be entered in a program.

### Program entry

- Program entry is possible during stop mode, playback and programmed playback.



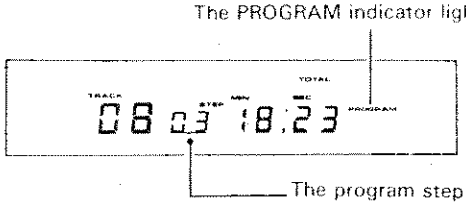

1. **Press the PROGRAM key during stop mode, or playback.**
   The player will enter the program mode. Pressing the PROGRAM key again will cancel the program mode.

2. **Select the tracks with the TRACK NUMBER keys.**
   Select the tracks in the desired program sequence. Press the PROGRAM key after selecting each track.
   Up to 24 program steps can be entered.

3. **For playback instructions, see page 23, "Playback operation."**

- If tracks are entered during programmed playback, they will be added to the currently-playing program.
- If the memory contains a previous program, the programmed tracks will be newly added to the previous program. To enter a completely new program, clear the previous program first. See page 23 "Programmed playback stop and program clear".

Each time you program a track the program step, number of the programmed track and the total time are displayed on the indicator.
Furthermore, when you program a track during playback, a display appears for about 5 seconds.




### Operation example

This plays tracks 5, 3, and 8 in sequence.

- Program entry (during stop mode)

| Step | Key operations | Indicator display |
|---|---|---|
| (Program mode) | PROGRAM | |
| 01 | 5 | |
| 02 | 3 | |
| 03 | 8 | |

- During stop mode, a pause can be programmed instead of a track number. If the PAUSE key is pressed, "PA" will be displayed instead of a track number. In this case, the pause indicator will not light.

### Example 1

When recording on both sides of a cassette tape, enter a pause after the last track that can be recorded on the first side. This will allow a pause for changing the cassette side. Recording can then resume on the second side.

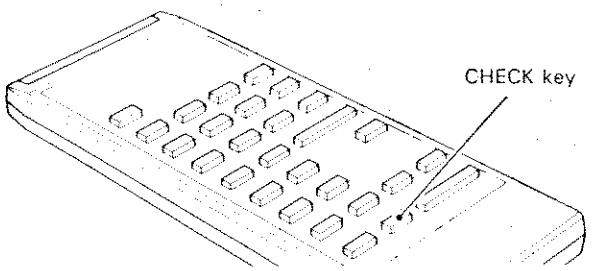
### Example 2

During a tape recording, a pause programmed between tracks will produce a silent recording. A narration, etc., can then be inserted before recording the next track.

*NOTE:*
- *A pause cannot be programmed as the first program step (01). Two consecutive pauses also cannot be programmed.*
- *A pause can be programmed for the last program step, however, it will not be effective.*

### Program check

- It is possible to check the program contents while in the program mode.




Each time the CHECK key is pressed, the next program step will be displayed in sequence. (When the final program step is reached and the CHECK key is pressed, the indicator will display "00". Additional steps can then be entered if desired.)

The indicator displays the program step number and the track number (or pause) entered for that step.

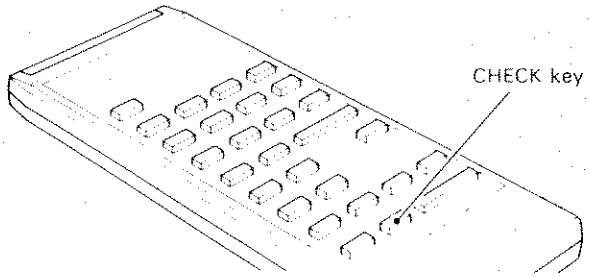
### Operation example

- Program check
  (If not already in the program mode, press the PROGRAM key first.)

| Step | Key operations | Indicator display |
|---|---|---|
| 01 | CHECK | TRACK 05 STEP 01 TIME MIN 00 SEC 00 PROGRAM |
| 02 | CHECK | TRACK 03 STEP 02 TIME MIN 00 SEC 00 PROGRAM |
| 03 | CHECK | TRACK 08 STEP 03 TIME MIN 00 SEC 00 PROGRAM |
| End of check | CHECK | TRACK 00 STEP TIME MIN SEC PROGRAM |
| 01 | CHECK | TRACK 05 STEP 01 TIME MIN 00 SEC 00 PROGRAM |

### Modifying the program

- It is possible to modify the program while in the program mode.




The program step currently displayed will be changed. While checking the program, change the program step with the TRACK NUMBER keys.

### Operation example

- Modifying the program
  This replaces track 3 in program step 02 with track 4. (If not already in program mode, press the PROGRAM key.)

| Step | Key operations | Indicator display |
|---|---|---|
| 01 | CHECK | TRACK 05 STEP 01 TIME MIN 00 SEC 00 PROGRAM |
| 02 | CHECK | TRACK 03 STEP 02 TIME MIN 00 SEC 00 PROGRAM |
| 02 Change | 4 | TRACK 04 STEP 02 TOTAL MIN 19 SEC 24 PROGRAM |

### Program cancellation

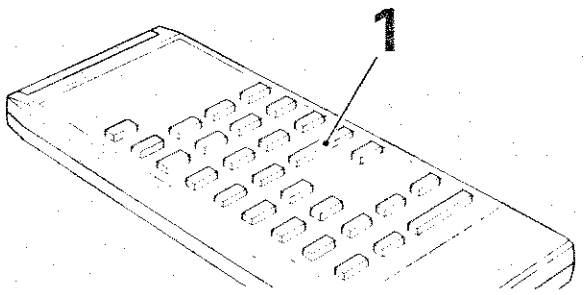
- The program can be cancelled during program mode. Pressing the CLEAR key after entering a program or during programmed playback will clear the program's last program step.

The indicator will display the changed, last program step.

*NOTE:*
*The program step before the currently-playing step cannot be cleared.*

## Playback Operation

- Playback is possible during program mode.




**1. Press the PLAY key to start playback.**

- If a pause has been programmed, the pause will take effect at the beginning of the track following the pause program step. To restart programmed playback, press either the PLAY key or PAUSE key.

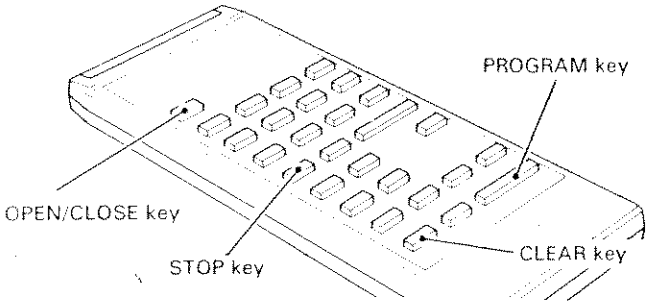
**2. End of playback**

When the last program step is finished playing, track number will be displayed at the first program step and the player will enter the stop mode.

**■ When the ALL TRACK REPEAT mode is ON.**

After the last program step is finished playing, the player returns to the first program step and the program is repeated. The program will be repeated until the REPEAT mode is cancelled or until the STOP key is pressed to stop playback.

## Programmed playback stop and program clear




- During programmed playback, pressing the PROGRAM key again will turn off the PROGRAM indicator and the programmed playback will be cancelled. However, normal playback will continue. In this case, the program remains in memory. (Program memory)
- To recall a stored program, press the PROGRAM key again. The player will enter the program input mode and the stored program will be entered.
- Pressing the OPEN/CLOSE key will stop playback. (The stored program will also be cleared.)
- Pressing the STOP key will stop playback. In this case, the stored program will not be cleared. While in stop mode, pressing the STOP key again will clear the program.

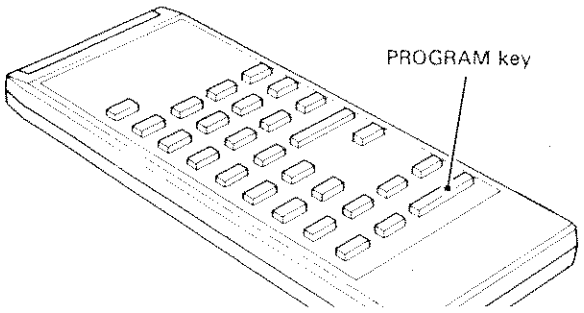
**Operation example**

- To stop programmed playback:
  PROGRAM (Program memory)
- To stop playback and clear the program:
  OPEN/CLOSE
- To clear the program:
  STOP → STOP
  (Stop playback) (Program clear)

*NOTE:*
*Pressing the CLEAR key during programmed playback will clear the last program step. Playback, however, will continue.*

## TO CHANGE TO PROGRAMMED PLAYBACK DURING PLAYBACK (ADD-ON PROGRAM)

Pressing the PROGRAM key during normal playback and entering a program will automatically start the program after the currently-playing track ends. Also, if the PLAY key is pressed during playback, the program will start immediately.




*NOTE:*
*If memory already contains a program, the newly-entered program will be added to it.*

**Operation example**

During normal playback of track 5, tracks 3 and 8 are programmed, and programmed play is started.

- Program entry

| Step | Key operations | Indicator display |
|---|---|---|
| (Program mode) | PROGRAM | TRACK 05 INDEX 01 TIME MIN 05 SEC 25 PROGRAM |
| 01 | 3 | TRACK 03 STEP 01 TOTAL MIN 12 SEC 41 PROGRAM |
| After 5 seconds. | | TRACK 05 INDEX 01 TIME MIN 05 SEC 38 PROGRAM |
| 02 | 8 | TRACK 08 STEP 02 TOTAL MIN 18 SEC 23 PROGRAM |

- Programmed playback start
  When playback of the fifth track ends, programmed playback will start automatically. To start programmed playback immediately, press the PLAY key.

## TIMER START

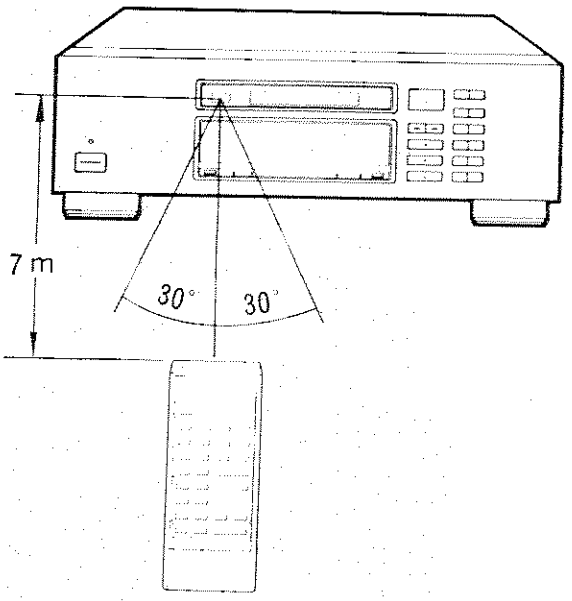
With a disc set on the disc tray, and the power turned on, playback will begin from track 1 of the disc.
If an audio timer is used, playback can be set to begin at the desired time.

*NOTE:*
- *If an audio timer is used, the player's POWER switch must be left in the ON position.*
- *After power is turned to the player and the player's operation keys are used before it starts to play, the timer start will not operate.*

## CAUTIONS REGARDING USE OF REMOTE CONTROL UNIT

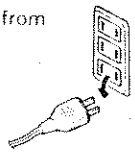
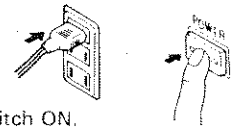
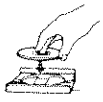
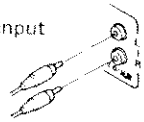
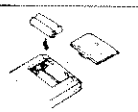
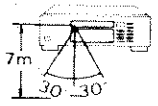
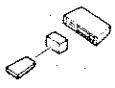
If use is made of the supplied remote control unit, remote control operation is possible.
To use the remote control unit, aim at the remote sensor. The remote control unit can operate over a range of approximately 23 feet (7 meters), within angles of 30 degree left and right.

- Even when the remote control unit is operated within the specified operating range, operation may not be successful if there are obstacles in the way, or if the angle is too great.
- Using the equipment near a device which emits infrared rays, or using another remote control unit which emits infrared rays, may result in misoperation. Conversely, use of the remote control unit when another device controlled be means of infrared rays is being used, may cause misoperation of this device.
- The life of the batteries used in the remote control unit will vary greatly depending on operating conditions, however when they begin to run down, the operating range will be reduced. When commands fail to be accepted when keys on the remote control unit are pressed, or when the operating range is greatly reduced, please replace the batteries.



# TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used.
If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

| Symptom | Probable cause | Remedy |
|---|---|---|
| Disc tray is not expelled when OPEN/CLOSE key is pressed. | • Power plug is disconnected from outlet.<br>  <br>• POWER switch is OFF. | • Connect plug to stereo amplifier or wall outlet.<br>  <br>• Press POWER switch ON. |
| When playback is started, it stops immediately.<br><br>**Pauses or stops playback.** | • Disc is loaded upside down.<br> <br>• The transportation screw is in position LOCK.<br>• **Contaminated disc, etc.** | • Load the disc correctly with the label side UP.<br>  <br>• Turn the transportation screw to position FREE.<br>• **Press the PLAY key or PAUSE key.** |
| No sound. | • Output cords are connected incorrectly or loosely.<br>• Incorrect operation of stereo amplifier.<br>• The output selector is set incorrectly for the amplifier being used.<br>• Player is in pause mode. | • Connect properly.<br>• Check the settings of stereo amplifier switches and sound volume controls.<br>• Set correctly the output selector.<br> <br>• Press the PLAY key. |
| Sound is distorted, noise is output. | • Incorrect connections.<br>  <br>• Pin plugs or amplifier input terminals are dirty.<br>• Interference is being picked up from a TV set. | • Connect to amplifier's CD or AUX terminals etc.<br>Do not connect to PHONO input terminals.<br>• Clean away dirt.<br>• Switch OFF TV set, or move player away from TV set. |
| With certain discs, loud noise is produced, or play stops. | • Disc is badly scratched or warped.<br> <br>• Disc is extremely dirty.<br> | • Replace the disc.<br> <br>• Clean the disc.<br> |
| Cannot operate player with remote control unit. | • Batteries have run out.<br>  <br>• Remote control unit is too far away from player, or angle is wrong.<br>  <br>• There is an obstacle between remote control unit and player.<br>  | • Replace batteries.<br>• The operating range of the remote control unit, is up to about 7 m from, and within angles of 30 degrees left and right of the sensor window on the player.<br> <br>• Operate the remote control unit from a different position, or remove the obstacle.<br> |

# SPECIFICATIONS

## 1. General

Type . . . . . Compact disc digital audio system
Usable disc . . . . . Compact Disc
**Power requirements**
European models . . . . . AC 220V, 50/60Hz
U.K., Australian models . . . . . AC 240V, 50/60Hz
U.S., Canadian models . . . . . AC 120V, 60Hz
Other models . . . . . AC 110/120 - 127/220/240V (switchable), 50/60Hz
Power consumption . . . . . 21 W
Operating temperature . . . . . +5°C - +35°C (+41°F - +95°F)

PD-9300:
Weight . . . . . 8.5 kg (18 lb, 12 oz)
External dimensions . . . . . 420(W) × 320(D) × 127(H) mm 16-9/16(W) × 12-19/32(D) × 5(H) in

PD-71:
Weight . . . . . 9.5 kg (20 lb, 15 oz)
External dimensions . . . . . 457(W) × 324(D) × 127(H) mm 18(W) × 12-3/4(D) × 5(H) in

## 2. Audio section

Frequency response . . . . 2 Hz - 20 kHz (±0.3 dB)
Signal-to-noise ratio . . . . . 112 dB or more (EIAJ)
Dynamic range . . . . . 99 dB or more (EIAJ)
Channel separation . . . . . 108 dB or more (EIAJ)
Total harmonic distortion . . . . 0.002 or less (EIAJ)
Output voltage . . . . . 2 V
Wow and flutter . . . . . Limit of measurement (±0.001% W.PEAK) or less (EIAJ)
Number of channels . . . . . 2 channels (stereo)
Digital output . . . . Coaxial output: 0.5 Vp-p (75 Ω)
Optical output: , −15 dBm to −20 dBm (wavelength 660 nm)

## 3. Output terminal

Optical digital output terminal
Coaxial digital output terminal
Audio line output terminal

## 4. Functions

- PLay
- Stop
- Pause
- Manual search
- Track search
- Index search
- Direct selection
- Single track repeat
- All track repeat
- Programmed repeat
- Random play repeat
- Programmed random play repeat
- Programmed playback (up to 24 tracks)
- Program check
- Program correction
- Program clear
- Pause program
- Add-on program
- Random play
- Programmed random play
- Display off
- Digital/Analog output selector
- Timer start
- Time display switchover

## 5. Accessories

- Remote control unit . . . . . 1
- Size AAA/R03 dry cell batteries . . . . . 2
- Output cable . . . . . 1
- Operating instructions . . . . . 1

*NOTE:*
*Specifications and design subject to possible modifications without notice, due to improvement.*